

10/089,732

1-11. (CANCELED)

12. (CURRENTLY AMENDED) A planetary gear for mounting on an electromotor, the planetary gear comprising:

planetary gear wheels (10) fitted in a rotating planetary carrier (8) that forms an output and which are in simultaneous gear-tooth engagement with a sun gear (12) and an annular gear (14) positioned in a housing (2), such that the sun gear (12) is connected to a rotating sun gear shaft (4), having a hollow receiving area section (16) to directly receive an output shaft of an electromotor;

a sealing element (22) being provided between the sun gear shaft (4) and the housing (2), wherein the sealing element (22) is axially spaced from the receiving area section (16) for the output shaft of the electromotor, and located on a first axial section of the sun gear shaft (4) having a smaller outer diameter then than a diameter of the receiving area ~~(16)~~; and

~~at least one bearing (28) for the sun gear shaft (4), whose inner ring is axially spaced from the receiving area (16) for the output shaft of the electromotor on a second axial section of the sun gear shaft (4) having a smaller outer diameter than the receiving area (16); section (16).~~

13. (CANCELED)

14. (CURRENTLY AMENDED) The planetary gear according to claim ~~[[13]]~~ 12, wherein the an outer bearing ring of the bearing (28) for the sun gear shaft (4) is positioned in the planetary carrier (8).

15. (CURRENTLY AMENDED) The planetary gear according to claim ~~[[13]]~~ 12, wherein the bearing (28) for the sun gear shaft (4) is located radially inside an inner ring of a planetary carrier bearing (30) and axially at least partly within the space occupied by the planetary carrier bearing (30).

16. (PREVIOUSLY AMENDED) The planetary gear according to claim 15, wherein the planetary carrier (8) has through bores (34, 36) on either side of each planetary gear wheel (10) to accommodate a planetary bearing pin (38) on which the planetary gear wheel (10) is mounted for rotation and an end face of the planetary bearing pin (38) is axially secured between opposing inner bearing rings of planetary carrier bearings (30, 32), whereby the planetary bearing pin (38) is secured against axial displacement.

10/089,732

17. (PREVIOUSLY PRESENTED) The planetary gear according to claim 14, wherein an annular groove (48) is provided in the planetary carrier (8) to receive a circlip (46), which is axially adjacent to a functional surface (47) that receives the outer bearing ring of the bearing (28) for the sun gear shaft, and the outer bearing ring is secured against axial displacement in one direction by the circlip (46).

18. (CANCELED)

19. (CURRENTLY AMENDED) A planetary gear for mounting on an electromotor, the planetary gear according to claim 17, comprising:

planetary gear wheels (10) fitted in a rotating planetary carrier (8) that forms an output and which are in simultaneous gear-tooth engagement with a sun gear (12) and an annular gear (14) positioned in a housing (2), such that the sun gear (12) is connected to a rotating sun gear shaft (4), having a hollow receiving section (16) to directly receive an output shaft of an electromotor;

a sealing element (22) being provided between the sun gear shaft (4) and the housing (2), wherein the sealing element (22) is axially spaced from the receiving section (16) for the output shaft of the electromotor, and located on a first axial section of the sun gear shaft (4) having a smaller outer diameter than a diameter of the receiving section (16); and

wherein the sun gear shaft (4) is mounted so that it can be axially displaced against the restoring force action of an elastic compensating element (56);

~~19. (CURRENTLY AMENDED) The planetary gear according to claim 18, wherein and the axial compensating element is positioned axially between a face of the outer bearing ring opposite the circlip (46) and a second functional surface (54) of the planetary carrier (8).~~

20. (PREVIOUSLY PRESENTED) The planetary gear according to claim 19, wherein the elastic compensating element is an O-ring (56).

21. (CANCELED)

22. (CURRENTLY AMENDED) A planetary gear for mounting on an electromotor, the planetary gear according to claim 12, comprising:

planetary gear wheels (10) fitted in a rotating planetary carrier (8) that forms an output and which are in simultaneous gear-tooth engagement with a sun gear (12) and an annular gear (14) positioned in a housing (2), such that the sun

10/089,732

gear (12) is connected to a rotating sun gear shaft (4), having a hollow receiving section (16) to directly receive an output shaft of an electromotor.

a sealing element (22) being provided between the sun gear shaft (4) and the housing (2), wherein the sealing element (22) is axially spaced from the receiving section (16) for the output shaft of the electromotor, and located on a first axial section of the sun gear shaft (4) having a smaller outer diameter than a diameter of the receiving section (16); and

wherein a diameter of a functional surface (26) of the sun gear shaft (4) associated with the sealing element (22) is smaller than the diameter of the a bore (18) for directly receiving the output shaft of the electromotor in the receiving area section (16) of the sun gear shaft (4).